FORM PTO-1390 (Modified) (REV. 01-2003)  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE ATTORNEY'S DOCKET NUMBER									
TRANSMITTAL LETTER TO THE LINITED STATES 820701-1315									
DESIGNATED/ELECTED OFFICE (DO/EO/US)  U.S. APPLICATION NO-(IF KNOWN)									
CONCERNING A FILING UNDER 35 U.S.C. 371									
INT	ERNA	ATIONAL APPLICATION NO. INTERNATIONAL FILING DAT	TE PRIORITY DATE CLAIMED						
_		2004/038506 17 November 2004	17 November 2003						
TITLE OF INVENTION									
		ERING ENZYMES THROUGH GENETIC SELECTION ANT(S) FOR DO/EO/US:							
		Donald F., SCHWIMMER, Lauren J., BAHAREH, Azizi							
App	licant	herewith submits to the United States Designated/Elected Office (DC	O/EO/US) the following items and other information:						
1.	$\boxtimes$	This is a FIRST submission of items concerning a filing under 35 U							
2.		ning a filing under 35 U.S.C 371.							
3.	$\boxtimes$	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include							
		items (5), (6), (9) and (21) indicated below.							
4.		The US has been elected (Article 31).							
3.	5. A copy of the International Application as filed (35 U.S.C. 371(c)(2)).  a. is attached hereto (required only if not communicated by the International Bureau).								
	a. b.	☐ Is attached hereto (required only if not communicated by the International Bureau	ernational Bureau).						
	о. с.	is not required, as the application was filed in the United States Receiving Office (RO/US).							
6.		An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).							
	<ul> <li>a.  is attached hereto.</li> <li>b.  has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul>								
7.									
	b.	have been communicated by the International Bureau.							
	c.	have not been made; however, the time limit for making such amendments has NOT expired.							
•	d.	have not been made and will not be made							
8.		An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)). (Unsigned)							
10.		An English language translation of the annexes to the International Preliminary Examination Report under PCT Article 36							
		(35 U.S.C. 371(c)(5)).							
Items 13 to 23 below concern document(s) or information included:									
11.		An Information Disclosure Statement under 37 C.F.R. 1.97 and 1.98	1						
12.	$\Box$	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
13.		A preliminary amendment							
14.		An Application Data Sheet under 37 CFR 1.76.							
15.	$\boxtimes$	A substitute specification. (containing new set of claims for examination)							
16.		A power of attorney and/or change of address letter.							
17.		A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.							
18.	$\boxtimes$	A second copy of the published international application under 35 U.S.C. 1.54(d)(4).							
19.		A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).							
20.	$\boxtimes$								
International Search Report mailed 6 September 2005; Written Opinion of the International Searching Authority in September 2005; Copy of PCT Request Form PCT/PO/101 (4 pages) and Peturn Postcard									
September 2005; Copy of PCT Request Form PCT/RO/101 (4 pages); and Return Postcard									

U.S. APPLICA	TION NO 7	9692		ERNATIONAL APPLICATION 1 /US2004/038506	NO.		ATTORNEY'S DOC 820701-1315	CKET NO.:
	The follow	ving fees are sub					CALCULATIONS ONLY	PTO USE
21. ⊠ 22. ⊭⊠	22. 🖟 Examination Fee (37 CFR 1.492(c))					\$300	\$300	
If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1(-(4) \$0						\$		
	All other s	situations			•••••	\$200	\$200	
23. Search fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims								
				cle 33(1)-(4)		\$0	\$	
	Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority  International Search Report prepared by an ISA other than the US					\$100	\$100	
and provided to the Office or previously communicated to the US by the IB							\$ \$	
TOTAL OF 21, 22 and 23 =						\$600		
Additional fee for specification and drawings filed in paper over 100 sheets  (excluding sequence listing in compliance with 37 CFR 1.821© or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)).  The fee is \$250 for each additional 50 sheets of paper or fraction thereof.  Total Sheets  Number of each additional 50 or fraction  RATE								
			therec	of (round up to a whole number	er)			
-100= /50= x\$250						\$		
				fee, examination fee, or the or	ith or		\$	
	declaration after the date of commencement of the national state (37 CFR 1.492(h)).  CLAIMS NUMBER FILED NUMBER EXTRA RATE				E			
Total claims 20- 20 =				0	x \$50		\$	
Independent		4- 3 =	le)	11	1 x \$20 + \$360		\$200 \$	
Multiple Dependent Claims (check if applicable). + \$360  TOTAL OF ABOVE CALCULATIONS =						\$800		
Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.						\$		
SUBTOTAL =  Processing fee of \$130.00 for furnishing the English translation later than 30 months from the						\$400 \$		
earliest claimed priority date (37 CFR 1.492(i)).								
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied						\$		
by an appropriate cover sheet (37 CFR 3.28, 3.31) \$40.00 per property + TOTAL FEES INCLOSED =						\$400		
					Amount to be: refunded	\$		
						Amount to be charged	\$	

## 10/579683 (AP20 Rec'd PCT/PTO 17 MAY 2006)

a. A check in the amount of to cover the above fees is enclose.					
b. 🛱	Please charge my Deposit Account No. 20-0778 in the amount of \$400.00 to cover the above fees.				
	A duplicate copy of this sheet is enclosed.				
c. 📈 d. 🗆					
NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.					
SEND ALL CORRESPONDENCE TO:					
Thomas & Risle	•	Signature C. For			
	ia Parkway, Suite 1750	Heather C. Gorman			
Atlanta, G	eorgia 30339	Name			
		42,389			
		Registration Number			
·		5/17/05			
		Date			

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE AP20 Rec'0 PG 17 17 MAY 2006

In re:

DOYLE, Donald, et al.

For:

ENGINEERING ENZYMES THROUGH GENETIC SELECTION

## **CERTIFICATE OF EXPRESS MAIL**

Mail Stop PCT (DO/EO/US) Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Enclosed for filing in the above case are the following documents:

Return Postcard Transmittal Letter to the US Designated Office (DO/EO/US) (3 Pages)

Substitute Specification Consisting of: 47 Pages of Specification

3 Pages of Claims 1 Page Abstract

23 Pages Sequence Listing Sequence Listing Verification Statement Under 37 CFR 1.821(e)

Declaration (Unexecuted)

Information Disclosure Statement and PTO 1449

Copy of International Search Report and Written Opinion Copy of Published International Application WO 2005/049804 Deposit Account Authorization in the amount of \$400.00

Further, the Commissioner is authorized to charge Deposit Account No. 20-0778 for any additional fees required. The Commissioner is requested to credit any excess fee paid to Deposit Account No. 20-0778.

Respectfully submitted,

Heather C. Gorman

THOMAS, KAYDEN, HORSTEMEYER & RISLEY, L.L.P.

100 Galleria Parkway, N.W.

**Suite 1750** 

Atlanta, Georgia 30339-5948

Our Docket No: 820701-1315

I hereby certify that all correspondences listed above are being deposited for delivery to the above addressee, with the United States Postal Service "EXPRESS MAIL POST OFFICE TO ADDRESSEE" service under 37 CFR §1.10 on the date indicated below:

The envelope has been given U.S. Postal Service "Express Mail Post Office To Addressee" Package # EV861588012US.

5/17/2006

Signature Numer Melennos Laurie Delesandro